	Listing of Claims
Claim 1 (Currently Amende	d): A method of implementing atomic transactions in
system, said method comprising:	
requesting in a <u>user</u> program	logic a transaction identifier for an atomic transaction
wherein said program logic is conta	ined in a user program designed by a programmer;
generating said transaction	identifier in a transaction manager in response to said
requesting;	
specifying in said program	logic user program a plurality of combinations fo
execution in a sequential order, whe	rein each of said plurality of combinations contains said
transaction identifier, a task procedu	re, and a rollback procedure, wherein said task procedure
implements a part of said atomic t	ransaction and said rollback procedure is designed to
rollback said task procedure;	
executing <u>a set of said</u> task pr	ocedures in said a sequential order according to said use
program, wherein said set of task program.	ocedures are contained in said task procedures specified
in said plurality of combinations;	
keeping track of said a set	t <u>of</u> rollback procedures in said transaction manage
corresponding to said set of task pro-	cedures, each of said set of procedures being determined
based on a combination correspondi	ng to an executed task procedure contained in said set o
task procedures, said combination be	eing contained in said plurality of combinations specified
in said user program; and	
executing said set of rollbac	k procedures in a reverse order of said sequential orde
if said atomic transaction is to be ab	ported,
wherein said rollback proce	dure is specified as a separate procedure from said tasl
procedure in said user program whe	rein said rollback procedures are identified according to
said keeping.	

unique to each of the atomic transactions.

Claim 3 (Previously Presented): The method of claim 1, wherein said keeping comprises storing data representing said rollback procedures in a stack.

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Claim 4 (Original): The method of claim 3, wherein said stack is stored in a memory.

Claim 5 (Original): The method of claim 1, further comprising examining a status returned by execution of one of said task procedures and performing said aborting if said status indicates an error.

Claim 6 (Original): The method of claim 1, wherein said aborting is performed asynchronously.

Claims 7 (Currently Amended): A computer readable medium carrying one or more sequences of instructions representing a <u>user program logic</u> for execution on a system, said <u>user program logic</u> implementing an atomic transaction, wherein execution of said one or more sequences of instructions by one or more processors contained in said system causes said one or more processors to perform the actions of:

requesting an identifier <u>in said user program from a transaction manager</u> for said atomic transaction, wherein said transaction manager generates a unique value as said <u>identifier</u>;

setting a variable to equal said identifier;

specifying a plurality of combinations <u>in said user program</u> for execution <u>in said system</u>, wherein each of said plurality of combinations contains said <u>variable transaction</u> identifier, a task procedure, and a rollback procedure, wherein said task procedure implements a part of said atomic transaction and said rollback procedure is designed to rollback said task procedure, wherein said variable in each of said plurality of combinations specifies said identifier generated by said transaction manager; and

aborting said atomic transaction by specifying said identifier associated with an abort procedure to cause said rollback procedures to be executed,

wherein said program logic, including said plurality of combinations; and said abort procedure are contained in a said user program designed by a programmer.

Claim 8 (Original): The computer readable medium of claim 7, wherein said

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2	specifying comprises including each of said plurality of combinations in a single procedure
3	call.
1	Claim 9 (Original): The computer readable medium of claim 7, further comprising
2	examining a status returned by execution of one of said task procedures and performing said
3	aborting if said status indicates an error.
1	Claim 10 (Currently Amended): A computer readable medium carrying one or more
2	sequences of instructions for supporting implementation of an atomic transaction in a system,
3	wherein execution of said one or more sequences of instructions by one or more processors
4	contained in said system causes said one or more processors to perform the actions of:
5	generating an identifier for said atomic transaction for a user program;
6	receiving a plurality of combinations for execution from said user program, wherein
7	each of said plurality of combinations contains said transaction identifier, a task procedure,
8	and a rollback procedure, wherein said task procedure implements a part of said atomic
9	transaction and said rollback procedure is designed to rollback said task procedure;
10	executing a set of task procedures in a sequential order according to said user program,
11	wherein said set of task procedures are contained in said plurality of combinations said task
12	procedures ;
13	keeping track of a set of rollback procedures corresponding to said set of task
14	procedures, each of said set of procedures being determined based on a combination
15	corresponding to an executed task procedure contained in said set of task procedures, said
16	combination being contained in said plurality of combinations specified in said user program;
17	and
18	executing said set of rollback procedures in a reverse order of said sequential order
19	in response to receiving an abort request,
20	wherein said rollback procedure is specified as a separate procedure from said task
21	procedure in said user program.
22	wherein each of said plurality of combinations is received from a corresponding user
23	program and wherein the roll back procedure received from a first user program is different
24	from the roll back procedure received from a second user program.

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1	Claims 11 - 12 (Canceled)
1	Claim 13 (Currently Amended): The computer readable medium of claim 10 12,
2	wherein said transaction identifier is generated to be unique for each atomic transaction.
1	Claim 14 (Currently Amended): The computer readable medium of claim_10 12,
2	wherein said data is set of rollback procedures are represented in the form of a stack.
3	Claim 15 (Original): The computer readable medium of claim 14, wherein said stack
4	is stored in a memory.
1	Claim 16 (Currently Amended): A computer system comprising:
2	a memory storing a plurality of instructions; and
3	a processing unit coupled to said memory and executing said plurality of instructions
4	to support implementation of atomic transactions in a programming environment, said
5	processing unit being operable to:
6	request in a <u>user program logic</u> a transaction identifier for an atomic
7	transaction;
8	generate said transaction identifier in a transaction manager in response to said
9	requesting, wherein said transaction manager is provided external to said user
0	program;
1	specify in said <u>user program logic</u> a plurality of combinations for execution in
2	a sequential order, wherein each of said plurality of combinations contains said
3	transaction identifier, a task procedure, and a rollback procedure, wherein said task
4	procedure implements a part of said atomic transaction and said rollback procedure
5	is designed to rollback said task procedure, wherein said rollback procedure is
6	specified as a separate procedure from said task procedure;
7	execute said a set of task procedures in said a sequential order according to
8	said user program;

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keep track of said a set of rollback procedures in said transaction manager

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0	corresponding to said set of task procedures, each of said set of procedures being	
1	determined based on a combination corresponding to an executed task procedur	
2	contained in said set of task procedures, said combination being contained in said	
3	plurality of combinations specified in said user program; and	
4	execute said set of rollback procedures in a reverse order of said sequential	
5	order if said atomic transaction is to be aborted, wherein said rollback procedures are	
6	identified according to said keeping,	
7	wherein said program logic is contained in a user program designed by a	
8	programmer.	
1	Claim 17 (Original): The computer system of claim 16, wherein said transaction	
2	identifier is unique to each of the atomic transactions.	
1	Claim 18 (Previously Presented): The computer system of claim 16, wherein said	
2	processing unit is operable to store data representing said rollback procedures in a stack to	
3	perform said keep.	
1	Claim 19 (Original): The computer system of claim 18, wherein said stack is stored	
2	in a memory.	
1	Claim 20 (Original): The computer system of claim 16, wherein said processing unit	
2	is further operable to examine a status returned by execution of one of said task procedures	
3	and to perform said aborting if said status indicates an error.	
1	Claim 21 (Previously Presented): The computer system of claim 16, wherein said	
2	processing unit is operable to execute said rollback procedures asynchronously.	
1	Claims 22 - 24 (Canceled)	
1	Claim 25 (New): The computer readable medium of claim 7, wherein said rollback	
2	procedure is specified as a separate procedure from said task procedure in said user program.	